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# National Nanomanufacturing Network

## Newsletter

Volume 6 Issue 2 - February 2013

## Next Generation Nanotechnology Infrastructure Looking to Broaden Base



As the National Nanotechnology Infrastructure Network (NNIN) approaches the end of its initial 10 year term, it has clearly supported and catalyzed the growth of nanotechnology-enabled products. The NNIN user facilities have provided a key national resource where academic and industry researchers are able to access a wide range of state of the art fabrication processes and equipment to demonstrate proof of concept or prototype device technologies. In many instances, the NNIN serves to incubate innovation by enabling early stage R&D activities that otherwise may not be possible due to resource limitations, particularly for small companies. As the model for a Next Generation Nanotechnology Infrastructure (NG-NI) is being developed to accommodate emerging nanomanufacturing methods, materials, and progress towards nanoscale systems, the National Science Foundation (NSF) and other stakeholders are contemplating what capabilities should included in order to continue and accelerate the development of nanotechnology-enabled products, and further expand the innovation pipeline.

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## Job Opportunities

[Nano Cluster Faculty Search](#)

University of Pennsylvania

[Industry Liaison Officer](#)

University of Texas at Austin

[Research Summer Intern](#)

IBM

## Upcoming Events

March 3-6, 2013

[Adhesion Society Annual Meeting](#)

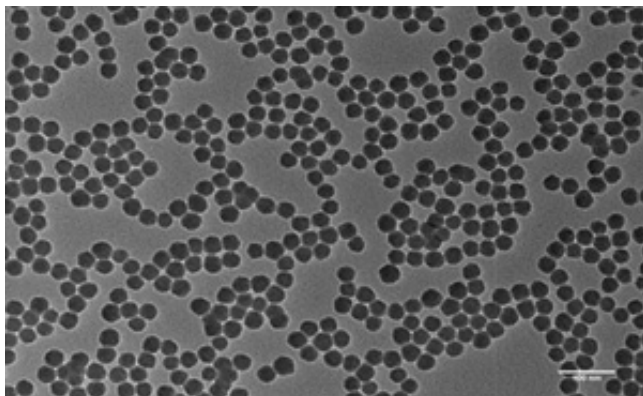
March 22, 2013

[Trends in Nano: Program Development](#)

Regards,  
Jeff Morse, Managing Director,  
National Nanomanufacturing Network

Learn More about the 

## InterNano Editorial Commentary: Nanomaterials in Food and Food Packaging



Direct consumer exposure to nanomaterials is brought front and center to the public through discussions of the presence of nanomaterials in food and food packaging products. InterNano Contributing Editor Stacey Frederick identified a recently published report on these areas of nanomaterial applications. The report provides unique perspectives of the topic, along with important information resources.

A recent report issued by As You Sow (AYS) provides a brief overview of the benefits, concerns, and regulations regarding nanomaterials in food and food packaging products.

[More....](#)

## Cabot Launches First Graphene-Based Additive to Improve Energy Density of Lithium-Ion Batteries

March 25-28, 2013

[Frontiers of Characterization and Metrology for Nanoelectronics](#)

[View Full Calendar](#)

## Featured Video



[Floating Gate Memory](#)

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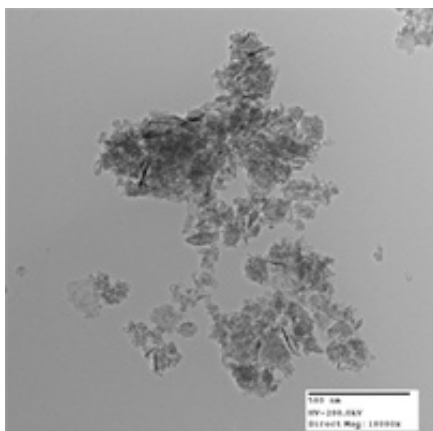
## Recently Published From Our Affiliates

Water-solubility-driven separation of gases using graphene membrane  
[Journal of Membrane Science](#)  
[428: 546-553](#)

Synthesis, Electronic Structure, Molecular Packing/Morphology Evolution, and Carrier Mobilities of Pure Oligo-  
/Poly(alkylthiophenes)  
[Journal of the American Chemical Society](#) **135(2): 844-854**

Surface Functionality of Nanoparticles Determines Cellular Uptake Mechanisms in Mammalian Cells  
[Small](#) **9(2): 300-305**

Addition of Perfluorocarbons to Alginate Hydrogels Significantly Impacts Molecular Transport and Fracture Stress  
[Journal of Biomedical Materials Research Part A](#) **101A(2): 438-**



### **LITX™ G700 graphene-based additive delivers step change performance vs. conventional additives for energy batteries**

Cabot Corporation announces the launch of LITX™ G700, the company's first graphene-based additive for high energy density lithium-ion battery applications. Utilizing graphene material developed on the basis of a new technology platform, this new additive helps lithium-ion battery manufacturers achieve superior cell performance.

[More...](#)

### **NanoBusiness Interview – Douglas Jamison Chairman & CEO Harris & Harris Group, Inc.**



In this month's interview, the NanoBusiness Commercialization Associations speaks with Douglas Jamison, Chairman and Chief Executive Officer of Harris & Harris Group, Inc. I have had the pleasure of knowing Doug for over 12 years. He is one of the

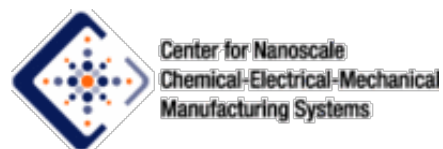
most extraordinary people in our Nanotechnology Community.

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